

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Huibers

Attorney Docket No. P142-US

Serial No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: Herewith

Examiner: Not Yet Assigned

For: **A DOUBLE SUBSTRATE REFLECTIVE SPATIAL LIGHT MODULATOR WITH  
SELF-LIMITING MICRO-MECHANICAL ELEMENTS**

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 CFR 1.97(b)**

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO/SB/08A. Each of the listed documents has been disclosed in one or both of the following applications:

1. 10/043,703 01/09/2002 PAT 6,538,800 (of which Parent Application 10/153,138 is a division)
2. 09/624,591 07/24/2000 PAT 5,356,378 (of which 10/043,703 is a continuation)

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the last of (1) issuance of a first official action on the merits and (2) expiration of the three month period following filing of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. It is respectfully requested that the information be considered during the prosecution of this application and that the cited documents

The Patent Office is authorized to charge our Deposit Account No. 501516 for any fee which it deems to be required to effect consideration of this statement.

Respectfully submitted,

  
Gregory R. Muir  
Attorney for Applicant  
Registration No. 35,293

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Application Number</b>	
<i>(use as many sheets as necessary)</i>				Not Yet Assigned	
Sheet				<b>Filing Date</b>	
1				HEREWITH	
of				<b>First Named Inventor</b>	
5				HUIBERS	
				<b>Art Unit</b>	
				Not Yet Assigned	
				<b>Examiner Name</b>	
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				<b>Attorney Docket Number</b>	
				P142-US	

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AA	US- 3.517.126	06-23-1970	Yamada et al.	
	AB	US- 3.553.364	01-05-1971	Lee	
	AC	US- 3.600.798	08-24-1971	Lee	
	AD	US- 3.678.196	07-18-1972	Roth	
	AE	US- 3.746.785	07-17-1973	Goodrich	
	AF	US- 3.746.911	07-17-1973	Nathanson et al.	
	AG	US- 3.886.310	05-27-1975	Guldberg et al.	
	AH	US- 4.229.732	10-21-1980	Hartstein et al.	
	AI	US- 4.356.730	11-02-1982	Cade	
	AJ	US- 4.383.255	05-10-1983	Grandjean et al.	
	AK	US- 4.403.248	09-06-1983	Te Velde	
	AL	US- 4.492.435	01-08-1985	Banton et al.	
	AM	US- 4.566.935	01-28-1986	Hornbeck	
	AN	US- 4.571.603	02-18-1986	Hornbeck et al.	
	AO	US- 4.592.628	06-03-1986	Altman et al.	
	AP	US- 4.596.992	06-24-1986	Hornbeck	
	AQ	US- 4.662.746	05-05-1987	Hornbeck	
	AR	US- 4.680.579	07-14-1987	Ott	
	AS	US- 4.698.602	10-06-1987	Armitage	
	AT	US- 4.710.732	12-01-1987	Hornbeck	

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				First Named Inventor	HUIBERS
				Art Unit	Not Yet Assigned
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Sheet	2	of	5	Attorney Docket Number	P142-US

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		Number - Kind Code <sup>2</sup> (if known)			
	AU	US- 4.786.149	11-22-1988	Hoenig et al.	
	AV	US- 4.805.038	02-14-1989	Seliqson	
	AW	US- 4.954.789	09-04-1990	Sampsell	
	AX	US- 4.956.619	09-11-1990	Hornbeck	
	AY	US- 4.998.262	03-05-1991	Wiggers	
	AZ	US- 5.061.049	10-29-1991	Horbeck	
	BA	US- 5.078.479	01-07-1992	Vuilleumier	
	BB	US- 5.085.497	02-04-1992	Um et al	
	BC	US- 5.196.767	03-23-1993	Leard et al.	
	BD	US- 5.216.537	06-10-1993	Hornbeck	
	BE	US- 5.287.215	02-15-1994	Warde et al.	
	BF	US- 5.311.360	05-10-1994	Bloom et al.	
	BG	US- 5.416.514	05-16-1995	Janssen et al.	
	BH	US- 5.442.414	08-15-1995	Janssen et al.	
	BI	US- 5.444.566	08-22-1995	Gale et al.	
	BJ	US- 5.448.314	09-05-1995	Heimbuch et al.	
	BK	US- 5.452.024	09-19-1995	Sampsell	
	BL	US- 5.471.341	11-28-1995	Warde et al.	
	BM	US- 5.493.439	02-20-1996	Engle	
	BN	US- 5.508.738	04-16-1996	Janssen et al.	

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		Number - Kind Code <sup>2</sup> (if known)			
	BO	US- 5.535.047	07-09-1996	Hornbeck	
	BP	US- 5.552.925	09-03-1996	Worley	
	BQ	US- 5.557.177	09-17-1996	Engle	
	BR	US- 5.567.334	10-22-1996	Baker et al.	
	BS	US- 5.579.149	11-26-1996	Moret et al.	
	BT	US- 5.579.151	11-26-1996	Cho	
	BU	US- 5.583.688	12-10-1996	Hornbeck	
	BV	US- 5.631.782	05-20-1997	Smith et al.	
	BW	US- 5.636.070	06-03-1997	Ji et al.	
	BX	US- 5.669.687	09-23-1997	Yang	
	BY	US- 5.677.784	10-14-1997	Harris	
	BZ	US- 5.706.061	01-06-1998	Marshall et al.	
	CA	US- 5.768.009	06-16-1998	Little	
	CB	US- 5.774.196	06-30-1998	Marshall	
	CC	US- 5.784.190	07-21-1998	Worley	
	CD	US- 5.808.780	09-15-1998	McDonald	
	CE	US- 5.835.256	11-10-1998	Huibers	
	CF	US- 5.926.309	07-20-1999	Little	
	CG	US- 5.999.306	12-07-1999	Atobe et al.	
	CH	US- 6.046.840	04-04-2000	Huibers	

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Sheet	4	of	5		

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PTO/SB/08B (10-96)

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				First Named Inventor	HUIBERS
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Sheet	5	of	5	Attorney Docket Number	P142-US

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	DA	JAECKLIN, "Line-Addressable Torsional Micromirrors for Light Modulator Arrays", Sensor and Actuators A, 41-42, Elsevier Science, pp. 324-329.	
	DB	GERHARD-MULTHAUPT et al., "Light-Valve Projection Displays - An Introduction", Displays, Vol. 16, No. 1, 1995, Elsevier Science B.V., pp. 5-7.	
	DC	GERHARD-MULTHAUPT, "Light-Valve Technologies for High-Definition Television Projection Displays", Displays, 1991, Vol. 12, No. 3/4, pp. 115-128.	
	DD	PETERSON, K.E., "Micromechanical Light Modulator Array Fabricated on Silicon", Applied Physics Letters, American Institute of Physics, Vol. 31 No. 8, 15 October 1977, pp. 521-523.	
	DE	CADMAN et al., "New Micromechanical Display Using Metallic Thin Films", IEEE Electron Device Letters, Jan. 1983, Vol. EDL-4 No.1, pp. 3-4.	
	DF	THOMAS et al., "The Mirror Matrix Tube: A Novel Light Valve for Projection Displays", IEEE Transactions on Electron Devices, Vol. Ed-22 No.9, September 1975, pp. 765-775.	
	DG	HORNBECK, "Digital Light Processing (TM) for High-Brightness, High Resolution Applications", Texas Instruments, Inc., date unknown, pp. 1-14.	
	DH	YODER, "The Digital Display Technology of the Future", Texas Instruments, Inc., date unknown, pp. 1-11.	
	DI	PETERSON, "Silicon Torsional Scanning Mirror", IBM J. Res. Develop., Vol. 24 No. 5, September 1980 pp. 631-637.	

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